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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/667,408	09/21/2000	Charles E. Roos	A32398-PCT-USA-066355.01	1 8750
Charles E. Roo	7590 07/05/200 S	7	EXAM	IINER
2507 Ridgewood Drive			BORISSOV, IGOR N	
Nashville, TN 37215			ART UNIT	PAPER NUMBER
			3628	
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			MAIL DATE	DELIVERY MODE
		•	07/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<del></del>	Application No.	Applicant(s)			
	09/667,408	ROOS, CHARLES E.			
Office Action Summary	Examiner	Art Unit			
•	Igor N. Borissov	3628			
The MAILING DATE of this communication app					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of the same period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS , cause the application to become ABAN	TION.  / be timely filed  S from the mailing date of this communication.  DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 19 Fe	ebruary 2007.				
2a)⊠ This action is <b>FINAL</b> . 2b)□ This	This action is <b>FINAL</b> . 2b) This action is non-final.				
3) Since this application is in condition for alloward	·	·			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) 30-59 is/are pending in the application	n.				
4a) Of the above claim(s) 34,35,38,40 and 42-8	58 is/are withdrawn from con	sideration.			
5) Claim(s) is/are allowed.					
6) Claim(s) 30-33,36,37,39,41 and 59 is/are rejections.	cted.				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) acc	epted or b)⊡ objected to by	the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance	. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct		·			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached C	office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
1. Certified copies of the priority document	s have been received.				
2. Certified copies of the priority document	s have been received in App	lication No			
3. Copies of the certified copies of the prior	rity documents have been re	ceived in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list	of the certified copies not re	ceived.			
•					
Attachment(s)					
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sum	nmary (PTO-413) //ail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		rmal Patent Application			

### **DETAILED ACTION**

# Response to Amendment

Amendment received on 02/19/2007 is acknowledged and entered. New claim 59 has been added. Claims 30-59 are currently pending in the application.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 33 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 33 recites the limitation "said digital service providers" in line 2. There is insufficient antecedent basis for this limitation in the claim. Furthermore, a phrase "scrambler scramble" appears to be misspelled.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30-33, 36, 37, 39, 41 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tracy et al. (US 6,150,955) in view of McEachern (US 5,530,738) and further in view of McNamara et al. (US 5,528,507).

Tracy et al. (Tracy) teaches an apparatus for transmitting data via a digital network, comprising:

Art Unit: 3628

Claim 30,

a utility meter interface configured to communicate with a meter for measuring the utility usage in said household of a utility delivered to said household (C. 3, L. 64-67);

a network interface configured to communicate with said digital network (C. 4, L. 7-33);

a household interface configured to communicate with household devices of said utility user (C. 7, L. 16-44); furthermore, note: "communicating voice/data including caller's identification and billing information over said digital network", thereby indicating providing services over said digital network (C. 5, L. 37-43

a computer disposed within said data port configured to store and process data and other communications from said interfaces (C. 7, L. 16-17).

Tracy does not explicitly teach that said network is the Internet.

Official Notice is taken that it is old and well known that the Internet is a largest existing network. Also, it is old and well known to provide services over the Internet.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy to include that said network includes the Internet, because it would advantageously allow to save money by avoiding building a dedicated network.

Also, Tracy does not explicitly teach that said utility meter interface is configured to measure Voltage, harmonics, and to communicate at broadband rates.

McEachern teaches an electronic power measuring instrument adapted to measure Voltage and harmonics (C. 3, L. 51-61).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy to include that said utility meter interface is configured to measure Voltage and harmonics, as disclosed in McEachern, because obtaining said data in relation to historical numbers and threshold values would advantageously allow to identify fault data, as specifically stated in McEachern.

McNamara et al. (McNamara) teaches an intelligent utility measuring device which is interfaced with a high-speed backbone network via a broad band interface

Art Unit: 3628

(fiber/optical cable), and which includes a customer's home monitoring and control network which routes data between the customer's home (including utility meters and other household devices) and gateways, thereby providing for video, voice and data communications (Figs. 2, 4; C. 2, L. 18-23; C. 3, L. 33, 57-60).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy and McEachern to include that said apparatus comprises a broad band interface, as disclosed in McNamara, because it would advantageously allow to provide bi-directional real-time communication with large numbers of residential and commercial customers, and provide channels for data services, as specifically disclosed in McNamara (C. 2, L. 9-14).

Claim 31. McNamara teaches an intelligent utility measuring device which is interfaced with a high-speed backbone network via a broad band interface (fiber/optical cable), and which includes a customer's home monitoring and control network which routes data between the customer's home (including utility meters and other household devices) and gateways, thereby providing for video, voice and data communications (Figs. 2, 4; C. 2, L. 18-23; C. 3, L. 33, 57-60). The motivation to combine the references would be to advantageously allow to avoid the centralized routing and handling facility, and provide simultaneous two-way communication with an entire service area population, as specifically disclosed in McNamara (C. 2, L. 2-3, 7-8).

Claim 32. See reasoning applied to claim 31.

Claim 33. Tracy teaches said apparatus adapted to scramble (encrypt) data transmitted over said network (C. 6, L. 37-39).

Claim 36. Tracy teaches said apparatus adapted to communicate said data wirelessly (C. 4, L. 24-25).

Art Unit: 3628

Claim 37. Tracy teaches said apparatus including means for power back-up in case of power outage (C. 6, L. 62-64).

Claim 39.

Tracy teaches all the limitations of claim 39, including means for power back-up in case of power outage (C. 6, L. 62-64), except specifically teaching means to identify the location of said multifunction dataport, and that said computer is configured to communicate said location information of said dataport when said power outage is detected.

McNamara teaches said intelligent utility measuring device (IUU), wherein each IUU is associated with a particular customer' home and has individual unique physical unit address which allows each IUU directly communicate with a network manager (C. 5, L. 1-10), thereby indicating ability to communicate from a specific IUU any pertinent information associated with said specific IUU disposed at the particular location.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy to include means to identify the location of said multifunction dataport, and that said computer is configured to communicate said location information of said dataport when said power outage is detected, as suggested in McNamara, because it would advantageously to instantaneously detect the faulty unit thereby avoiding financial losses associated with loss of metering data.

Claim 41. Tracy teaches said apparatus including a sealed housing, said apparatus is adapted to detect a physical intrusion and send a security breach signal to a utility provider (C. 7, L. 10-15; C. 8, L. 55-56, 65-67; C. 9, L. 1-3).

Claim 59 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tracy et al. (US 6,150,955) in view of McEachern (US 5,530,738) further in view of King et al. (US 5,745,114) and further in view of McNamara et al. (US 5,528,507).

Art Unit: 3628

Tracy et al. (Tracy) teaches an apparatus for transmitting data via a digital network, comprising:

Claim 59,

a utility meter interface configured to communicate with a meter for measuring the utility usage in said household of a utility delivered to said household (C. 3, L. 64-67);

a network interface configured to communicate with said digital network (C. 4, L. 7-33);

a household interface configured to communicate with household devices of said utility user (C. 7, L. 16-44); furthermore, note: "communicating voice/data including caller's identification and billing information over said digital network", thereby indicating providing services over said digital network (C. 5, L. 37-43

a computer disposed within said data port configured to store and process data and other communications from said interfaces (C. 7, L. 16-17).

Tracy does not explicitly teach that said network is the Internet.

Official Notice is taken that it is old and well known that the Internet is a largest existing network. Also, it is old and well known to provide services over the Internet.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy to include that said network includes the Internet, because it would advantageously allow to save money by avoiding building a dedicated network.

Also, Tracy does not explicitly teach that said utility meter interface is configured to measure Voltage, harmonics, peak demand, power factor and to communicate at broadband rates.

McEachern teaches an electronic power measuring instrument adapted to measure Voltage and harmonics (C. 3, L. 51-61).

King et al. (King) teaches an electronic power measuring instrument adapted to measure Voltage, harmonics, and power factor (C. 1, L. 25-30; C. 5, L. 35-65).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy to include that said utility meter interface is

configured to measure Voltage and harmonics, as disclosed in McEachern, and power factor, as disclosed in King, because obtaining said data in relation to historical numbers and threshold values would advantageously allow to identify fault data, as specifically stated in McEachern and King.

McNamara et al. (McNamara) teaches an intelligent utility measuring device which is interfaced with a high-speed backbone network via a broad band interface (fiber/optical cable), and which includes a customer's home monitoring and control network which routes data between the customer's home (including utility meters and other household devices) and gateways, thereby providing for video, voice and data communications (Figs. 2, 4; C. 2, L. 18-23; C. 3, L. 33, 57-60).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Tracy, McEachern and King to include that said apparatus comprises a broad band interface, as disclosed in McNamara, because it would advantageously allow to provide bi-directional real-time communication with large numbers of residential and commercial customers, and provide channels for data services, as specifically disclosed in McNamara (C. 2, L. 9-14).

## Response to Arguments

Applicant's arguments filed 02/19/2007 have been fully considered but they are not persuasive.

In response to applicant's argument that the prior art fails to disclose the use of broad band for communication, and transmitting digital signals from a multiplicity of channels, it is noted that McNamara teaches an intelligent utility measuring device which is interfaced with a high-speed backbone network via a broad band interface (fiber/optical cable), and which includes a customer's home monitoring and control network which routes data between the customer's home (including utility meters and other household devices) and gateways, thereby providing for video, voice and data communications (Figs. 2, 4; C. 2, L. 18-23; C. 3, L. 33, 57-60).

In response to applicant's argument that the prior art fails to teach measuring peak demand, it is noted that King was applied for this feature.

The remaining applicant's arguments essentially repeat the arguments presented above; therefore, the responses presented by the examiner above are equally applicable to the remaining applicant's arguments.

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Igor Borissov whose telephone number is 571-272-6801. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Hayes can be reached on 571-272-6708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IB

06/25/2007

IGOR N. BORISSOV PRIMARY EXAMINER